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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,499	06/23/2003	Muraleedhara Navada	P16516	9674
28062	7590	06/29/2005		
BUCKLEY, MASCHOFF, TALWALKAR LLC 5 ELM STREET NEW CANAAN, CT 06840				
EXAMINER KIM, HAROLD J				
ART UNIT		PAPER NUMBER		
2182				

DATE MAILED: 06/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/601,499

**Applicant(s)**

NAVADA ET AL.

**Examiner**

Harold Kim

**Art Unit**

2182

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 23 June 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 June 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

### DETAILED ACTION

1. Claims 1-20 are presented for examination.

#### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. **Claims 1-5, 9-18 is/are rejected under 35 U.S.C. 102(e) as being anticipated by Tsai, USPGPUB No. 2003/0079059.**

4. In re claim 1, Tsai shows an apparatus [figs 2 and 4], comprising:

a first buffer [13, fig 2; 23, fig 4] to store a set of data from a data source [11, 21];

and

a second buffer [12, fig 2; 25, fig 4] to store a subset of the data, wherein data is to be provided from one of the first and second buffers after data is overwritten in a corresponding location in the other buffer [paragraph 0008, lines 9-13].

5. In re claim 2, Tsai shows the subset of data is to be copied from the first buffer to the second buffer before data is overwritten in the first buffer, and a data requestor [12, fig 2; 22 fig 4] is to receive (i) the subset of data from the second buffer and (ii) the remaining data from the first buffer [paragraph 0025, lines 1-13].

6. In re claim 3, Tsai shows wherein the subset of data is to be copied from the first buffer to the second buffer after the locations in the first buffer that correspond to the second buffer are filled [paragraph 0025, lines 5-13].

7. In re claim 4, Tsai shows wherein a data ready signal is to be provided after the first buffer is filled [paragraph 0025, lines 7-13].

8. In re claim 5, Tsai shows the data ready signal is to be provided to an arbiter unit [paragraph 0025, lines 7-13].

9. In re claims 9-14, Tsai teaches the apparatus to carry out the operations as set forth in claims 1-5. Therefore, Tsai also teaches the method steps in using the apparatus.

10. In re claim 15, Tsai shows a method, comprising:

receiving m-bit blocks of data from a data source [11, fig 2; 22, fig 4; paragraph 0019];

sequentially storing the blocks in a first buffer [13m fig 2; 23, fig 4] adapted to store N blocks [paragraph 0019, lines 8-11];

after C blocks of data have been stored in the first buffer, copying the C blocks of data from the first buffer to a second buffer adapted to store C blocks [paragraphs 0021 and 0025], where C is less than N [paragraph 0021];

after N blocks of data have been stored in the first buffer, providing a data ready signal [paragraph 0025, lines 7-13];

storing additional blocks from the data source in the first buffer by overwriting locations in the first buffer [paragraphs 0008, and 0025]; and

providing to a data requestor [22, fig 4] the C blocks of data from the second buffer and the remaining blocks of data from the first buffer [paragraph 0025].

11. In re claim 16, Tsai shows C is associated with a maximum number of cycles between the time the data ready signal is provided and the time the data is provided to the data requestor [paragraph 0025].

12. Claims 17-18 are rejected under the same rationale as discussed above in claims.

### ***Claim Rejections - 35 USC § 103***

13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**14. Claims 6-8, and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsai, USPGPUB No. 2003/0079059, as applied to claims 1-5, and 9-18 above.**

15. In re claims 6-8, and 19-20, Tsai shows an arbitration system [fig 4] and all of the limitations except for the demultiplexer, Ethernet network, Ethernet interface, application specific integrated circuit device.

However, it is well known in the art of computer communication to have the demultiplexer, Ethernet network, Ethernet interface, application specific integrated circuit device. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to include the demultiplexer, Ethernet network, Ethernet interface, application specific integrated circuit device in the Tsai system because it would provide the invention of Tsai with more flexible by allowing it to operate in multiple configurations and also providing the flexibility to communicate with various different type of devices.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Further references of interest are cited on Form PLO-892, which is attachment to this office action.

Any response to this action should be mailed to:

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P.O. Box 1450  
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The centralized fax number is 703 872-9306.

The centralized hand carry paper drop off location is:

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Randolph Building  
401 Dulany Street  
Alexandria, VA 22314


Any inquiry of a general nature or relating to the status of this application should be directed to the central telephone number (571) 272-2100.

Direct any inquiries concerning drawing review to the Drawing Review Branch (703) 305-8404.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harold Kim whose telephone number is 571-272-4148. The examiner can normally be reached on Monday-Thursday 6AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on 571-272-4083. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
KIM HUYNH  
PRIMARY EXAMINER  
6/27/05

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Harold J. Kim

Patent Examiner

June 25, 2005/HK